

REISSUE PATENT APPLICATION TRANSMITTAL

Address to: Mail Stop Reissue Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Attorney Docket No.	FI 9-97-207 US2
	First Named Inventor	Cyprian Emeka Uzoh
	Original Patent Number	6,297,140 B1
	Original Patent Issue Date (Month/Day/Year)	10/02/01
	Express Mail Label No.	

APPLICATION FOR REISSUE OF:
 (check applicable box)
 ☒ **Utility Patent**
☐ **Design Patent**
☐ **Plant Patent**

APPLICATION ELEMENTS (37 CFR 1.173)	ACCOMPANYING APPLICATION PARTS
1. <input checked="" type="checkbox"/> Fee Transmittal Form (PTO/SB/56) <i>(Submit an original, and a duplicate for fee processing)</i> 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 3. <input checked="" type="checkbox"/> Specification and Claims in double column copy of patent format <i>(amended, if appropriate)</i> 4. <input checked="" type="checkbox"/> Drawing(s) <i>(proposed amendments, if appropriate)</i> 5. <input checked="" type="checkbox"/> Reissue Oath/Declaration (original or copy) <i>(37 CFR § 1.175)(PTO/SB/51 or 52)</i> 6. <input checked="" type="checkbox"/> Power of Attorney 7. Original U.S. Patent currently assigned? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If Yes, check applicable box(es))</i> <input type="checkbox"/> Written Consent of all Assignees (PTO/SB/53) <input type="checkbox"/> 37 CFR 3.73(b) Statement (PTO/SB/96) 8. <input type="checkbox"/> CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table 9. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all of the following are necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CFR) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM (2 copies) or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identify of above copies	10. <input checked="" type="checkbox"/> Statement of status/support for all changes to the claims. See 37 CFR 1.173(c). 11. <input type="checkbox"/> Original U.S. Patent for surrender <input type="checkbox"/> Ribboned Original Patent Grant <input type="checkbox"/> Statement of Loss (PTO/SB/55) 12. <input type="checkbox"/> Foreign Priority Claim (35 U.S.C. 119) <i>(if applicable)</i> 13. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 14. <input type="checkbox"/> English Translation of Reissue Oath/Declaration <i>(if applicable)</i> 15. <input checked="" type="checkbox"/> Preliminary Amendment 16. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 17. Other: <div style="border: 1px solid black; padding: 5px; min-height: 50px;"> Copy of Certificate of Correction Offer to surrender original patent Request for transfer of drawings </div>


18. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	<div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 30678 </div>	or <input type="checkbox"/> Correspondence address below
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21906 U.S. PTO

10/677166



Name					
Address					
City		State		Zip Code	
Country		Telephone		Fax	
Name (Print/Type)	Burton A. Amernick			Registration No. (Attorney/Agent)	24,852
Signature				Date	10-2-03

REISSUE APPLICATION FEE TRANSMITTAL FORM

Docket Number (Optional)
FI9-97-207 US2

Claims as Filed – Part 1

Claims in Patent		Number Filed in Reissue Application	(3) Number Extra	Small Entity		or	Other than a Small Entity	
				Rate	Fee		Rate	Fee
(A) 23	Total Claims (37 CFR 1.16(j))	(B) 23	**** 3 =	x \$	=		x \$ 18 =	54.00
(C) 2	Independent claims (37 CFR 1.16(i))	(D) 2	* 0 =	x \$	=		x \$ 86 =	0
Basic Fee (37 CFR 1.16(h))				\$				\$ 770.00
Total Filing Fee				\$			OR	\$ 824.00

Claims as Amended – Part 2

	(1) Claims Remaining After Amendment		(2) Highest No. Previously Paid For	(3) Extra Claims Present	Small Entity		or	Other than a Small Entity	
					Rate	Fee		Rate	Fee
Total Claims (37 CFR 1.16(j))	*** 62	MINUS	** 23	* = 39	x \$	=		x \$ 18 =	702.00
Independent claims 37 CFR 1.16(i)	*** 2	MINUS	***** 3	= 0	x \$	=		x \$ 86 =	0.00
Total Additional Fee					\$			OR	\$ 702.00

* If the entry in (D) is less than the entry in (C), Write "0" in column 3.

** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space.

*** After any cancellation of claims.

**** If "A" is greater than 20, use (B-A); if "A" is 20 or less, use (B-20).

***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (C).

☐ Applicant claims small entity status. See 37 CFR 1.27.

☒ Please charge Deposit Account No. 09-0458 in the amount of \$ 1526.00.
A duplicate copy of this sheet is enclosed.

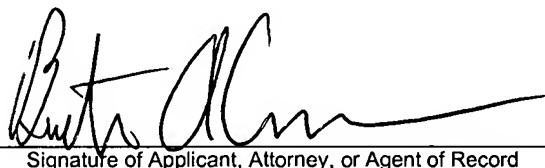
☒ The Director is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. 09-0458.
A duplicate copy of this sheet is enclosed.

☐ A check in the amount of \$ _____ to cover the filing/additional fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

10-2-03

Date



Signature of Applicant, Attorney, or Agent of Record

24,852

Registration Number, if applicable

Burton A. Amernick

Typed or printed name

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Patent Application of:
Cyprian Emeka Uzoh et al.

Reissue Application No.: Not Yet Known
(U.S. Patent 6,297,140)

Group Art Unit: Not Yet Known

Filed: Concurrently Herewith
(October 2, 2001)

Examiner: Not Yet Known

STATUS OF CLAIMS AND SUPPORT FOR CLAIM CHANGES

MS REISSUE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

1. The Status of the claim as a result of the amendment submitted herewith is:

Claims cancelled: none

Claims amended: 1, 16, 20, 22 and 23

Claims added: 24 to 62

2. Explanation of/or support of new claims or amendments to claims:

Claims 1, 16, 20, 22 and 23 have also been amended by deleting the phrase "the steps of" or "the step of" which seems superfluous.

This is a broadened reissue in view of newly-presented claims 24-43. The broadening is directed to not reciting "depositing a photoresist layer over said plating seed layer" and "remaining portions of said photoresist layer" and "removing photoresist remaining in said at least one recess" contained in Patent Claim 1 and claims dependent therein or not reciting "providing a pad in said at least one recess for preventing removal of portions of said seed layer in said at least one recess" and "removing said pad" included in Patent Claim 22 and claims dependent thereon. Not requiring the above features is supported by the original patent. For instance, although these features relate to referred aspects of the invention in order to assure the preventing of dishing of the seed layer in the depression, they are not mandatory. In particular, the disclosure at column 6, lines 3-4 and 42-44 disclose the optional nature of these embodiments.

For instance, column 6, lines 3-4 state:

“After formation of the seed layer, a photoresist may be deposited over the seed layer.”

Column 6, lines 42-44 state:

“According to an alternative embodiment, photoresist may not be utilized. Since an embodiment may utilize a very hard pad to prevent dishing of the seed layer in the depression.”

The use of the term “may” with the above statements is a clear appreciation and recognition that the method is being practiced without employing these steps. This is further supported by column 6, line 53 that states

“After removal of the resist, if necessary . . .”

Newly presented claims 44-62 generally correspond to claim 2-12 and 14-21, respectively except that they ultimately depend upon claim 22 rather than ultimately from Claim 1. Claim 54 further differs from Claim 12 in not reciting the “photoresist layer.”

Dated: 10-2-03

Respectfully submitted,

By 

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Patent Application of:
Cyprian Emeka Uzoh et al.

Reissue Application No.: Not Yet Known
(U.S. Patent 6,297,140)

Group Art Unit: Not Yet Known

Filed: Concurrently Herewith
(October 2, 2001)

Examiner: Not Yet Known

OFFER TO SURRENDER ORIGINAL PATENT GRANT


MS REISSUE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Reissue Applicants hereby offer to surrender the original Letters Patent for U.S.
Patent No. 6,297,140 B1 upon the allowance of this Reissue application.

Dated: 10-2-03

Respectfully submitted,

By 
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In re Reissue Patent Application of:
Cyprian Emeka Uzoh et al.

Reissue Application No.: Not Yet Known
(U.S. Patent 6,297,140)

Group Art Unit: Not Yet Known

Filed: Concurrently Herewith
(October 2, 2001)

Examiner: Not Yet Known

**REQUEST FOR TRANSFER OF DRAWINGS FROM ORIGINAL
PATENT TO REISSUE APPLICATION**

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please transfer the drawings from original patent, 6,297,140, filed on September 3, 1999, for the invention entitled "Method to Plate C4 to Copper Stud" to the reissue application, the specification of which is attached hereto.

Date: 10-2-03

Respectfully submitted,

By: 

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Attorney for Applicants

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,297,140 B1
DATED : October 2, 2000
INVENTOR(S) : Uzoh et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 2,

Line 48, delete "is" (second occurrence).

Column 5,

Line 38, after "may" insert -- be --.

Column 6,

Line 3, after "may" insert -- be --.

Line 24, delete "the" (first occurrence).

Line 65, after "continued" insert -- until --.

Signed and Sealed this

Twenty-fifth Day of June, 2002

Attest:

A handwritten signature in black ink, appearing to read "James E. Rogan", with a stylized flourish underneath.

Attesting Officer

JAMES E. ROGAN
Director of the United States Patent and Trademark Office